## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file refe<br>AY05-0201W02                                                                                                                                                                                                      |                                                              | FOR FURTHER ACTION See Form PCT/IPEA/416                 |                                        |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------|--|--|--|
| International application No.                                                                                                                                                                                                                         | International filir                                          | ing date (day/month/year) Priority date (day/month/year) |                                        |  |  |  |
| PCT/JP2005/00                                                                                                                                                                                                                                         |                                                              | =                                                        | 01.03.2004                             |  |  |  |
|                                                                                                                                                                                                                                                       | ation (IPC) or national classification                       |                                                          |                                        |  |  |  |
| C22C19/03, B22F9/24, C23C14/34, C25C1/20, H01L21/20, H01L21/28, 21/285                                                                                                                                                                                |                                                              |                                                          |                                        |  |  |  |
| Applicant Nippon Mining & Metals Co., Ltd.                                                                                                                                                                                                            |                                                              |                                                          |                                        |  |  |  |
| 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.                                      |                                                              |                                                          |                                        |  |  |  |
| 2. This REPORT cons                                                                                                                                                                                                                                   | ists of a total of 3                                         | sheets, includin                                         | g this cover sheet.                    |  |  |  |
| 3. This report is also a                                                                                                                                                                                                                              | ccompanied by ANNEXES, compris                               | ing:                                                     |                                        |  |  |  |
| a. (sent to                                                                                                                                                                                                                                           | the applicant and to the Internation                         | d Bureau) a total of                                     | sheets, as follows:                    |  |  |  |
| sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). |                                                              |                                                          |                                        |  |  |  |
| sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.               |                                                              |                                                          |                                        |  |  |  |
|                                                                                                                                                                                                                                                       |                                                              |                                                          |                                        |  |  |  |
| b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))                                                                                                                                             |                                                              |                                                          |                                        |  |  |  |
| , containing a sequence listing and/or tables<br>related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see                                                                              |                                                              |                                                          |                                        |  |  |  |
| Section 802 of the Administrative Instructions).                                                                                                                                                                                                      |                                                              |                                                          |                                        |  |  |  |
| 4. This report contains                                                                                                                                                                                                                               | indications relating to the following                        | items:                                                   |                                        |  |  |  |
| Box No. I Basis of the report                                                                                                                                                                                                                         |                                                              |                                                          |                                        |  |  |  |
| Box No. II                                                                                                                                                                                                                                            | Priority                                                     |                                                          |                                        |  |  |  |
| Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicabil                                                                                                                                             |                                                              |                                                          | tive step and industrial applicability |  |  |  |
| Box No. IV                                                                                                                                                                                                                                            | Lack of unity of invention                                   |                                                          |                                        |  |  |  |
| Box No. V                                                                                                                                                                                                                                             |                                                              |                                                          |                                        |  |  |  |
| Box No. VI                                                                                                                                                                                                                                            | Box No. VI Certain documents cited                           |                                                          |                                        |  |  |  |
| Box No. VI                                                                                                                                                                                                                                            | Box No. VII Certain defects in the international application |                                                          |                                        |  |  |  |
| Box No. VI                                                                                                                                                                                                                                            | II Certain observations on the in                            | tain observations on the international application       |                                        |  |  |  |
| Date of submission of the den                                                                                                                                                                                                                         | nand                                                         | Date of completion of th                                 | uis report                             |  |  |  |
|                                                                                                                                                                                                                                                       |                                                              |                                                          |                                        |  |  |  |
| Name and mailing address of the IPEA/JP                                                                                                                                                                                                               |                                                              | Authorized officer                                       | Authorized officer                     |  |  |  |
|                                                                                                                                                                                                                                                       |                                                              |                                                          |                                        |  |  |  |
|                                                                                                                                                                                                                                                       |                                                              |                                                          |                                        |  |  |  |
| Facsimile No.                                                                                                                                                                                                                                         |                                                              | Telephone No.                                            | Telephone No.                          |  |  |  |

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/001813

| Box | k No. I     | Basis of the report                                                                                                                                                                                     |                                                   |                                  |  |  |  |
|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------|--|--|--|
| 1.  |             | n regard to the language, this report is based on the cated under this item.                                                                                                                            | international application in the language in whic | h it was filed, unless otherwise |  |  |  |
|     |             | This report is based on translations from the origin which is the language of a translation furnished for international search (Rule 12.3 and 23.1(b)) publication of the international application (b) | r the purposes of:                                | ,                                |  |  |  |
|     |             | international preliminary examination (Rule                                                                                                                                                             |                                                   |                                  |  |  |  |
| 2.  | rece        | n regard to the <b>elements</b> of the international applicativing Office in response to an invitation under Artireport):  the international application as originally filed/furnithe description:      | icle 14 are referred to in this report as "origin |                                  |  |  |  |
|     |             | •                                                                                                                                                                                                       |                                                   | as originally filed/furnished    |  |  |  |
|     |             |                                                                                                                                                                                                         | received by this Authority on                     |                                  |  |  |  |
|     |             | •                                                                                                                                                                                                       | received by this Authority on                     | -                                |  |  |  |
|     | $\boxtimes$ | the claims:                                                                                                                                                                                             |                                                   |                                  |  |  |  |
|     |             | nos. 3-6                                                                                                                                                                                                |                                                   | as originally filed/furnished    |  |  |  |
|     |             |                                                                                                                                                                                                         | as amended (together wit                          |                                  |  |  |  |
|     |             |                                                                                                                                                                                                         | received by this Authority on                     |                                  |  |  |  |
|     |             |                                                                                                                                                                                                         | received by this Authority on                     |                                  |  |  |  |
|     | П           | the drawings:                                                                                                                                                                                           |                                                   |                                  |  |  |  |
|     |             | sheets                                                                                                                                                                                                  |                                                   | as originally filed/furnished    |  |  |  |
|     |             |                                                                                                                                                                                                         | received by this Authority on                     |                                  |  |  |  |
|     |             | sheets*                                                                                                                                                                                                 | received by this Authority on                     |                                  |  |  |  |
|     | П           |                                                                                                                                                                                                         |                                                   |                                  |  |  |  |
|     | $\Box$      | a sequence listing and/or any related table(s) – see                                                                                                                                                    |                                                   | g.                               |  |  |  |
| 3.  | ш           | The amendments have resulted in the cancellation                                                                                                                                                        | of:                                               |                                  |  |  |  |
|     |             |                                                                                                                                                                                                         |                                                   |                                  |  |  |  |
|     |             | the claims, nos.                                                                                                                                                                                        |                                                   |                                  |  |  |  |
|     |             |                                                                                                                                                                                                         |                                                   |                                  |  |  |  |
|     |             |                                                                                                                                                                                                         |                                                   |                                  |  |  |  |
|     |             | any table(s) related to sequence listing (spec                                                                                                                                                          |                                                   |                                  |  |  |  |
| 4.  | Ш           | This report has been established as if (some of) they have been considered to go beyond the disclo                                                                                                      |                                                   |                                  |  |  |  |
|     |             | the description, pages                                                                                                                                                                                  | the description, pages                            |                                  |  |  |  |
|     |             | the claims, nos.                                                                                                                                                                                        |                                                   |                                  |  |  |  |
|     |             | the drawings, sheets/figs                                                                                                                                                                               |                                                   |                                  |  |  |  |
|     |             | the sequence listing (specify):                                                                                                                                                                         |                                                   |                                  |  |  |  |
|     |             | any table(s) related to sequence listing (spec                                                                                                                                                          | ify):                                             |                                  |  |  |  |
| *   | If ite      | em 4 applies, some or all of those sheets may be mar                                                                                                                                                    | ked "superseded."                                 |                                  |  |  |  |

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/001813

| YES |
|-----|
| NO  |
| YES |
| NO  |
| YES |
| NO  |
| -   |

#### 2. Citations and explanations (Rule 70.7)

The inventions set forth in claims 1 to 8 are not disclosed in any of the documents that are cited in the international search report; therefore, the inventions in question are novel. In addition, the inventions set forth in claims 1 to 8 involve an inventive step in relation to the documents that are cited in the international search report. That is to say, the abovementioned documents do not disclose a Ni-Pt alloy that has a Pt content of 0.1 to 2.0% by weight and a Vickers hardness of 40 to 90; furthermore, it would not have been easy for a person skilled in the art to conceive of the feature in question.